

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636393

Luminaire Tested: GWS-SA3F-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-760-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

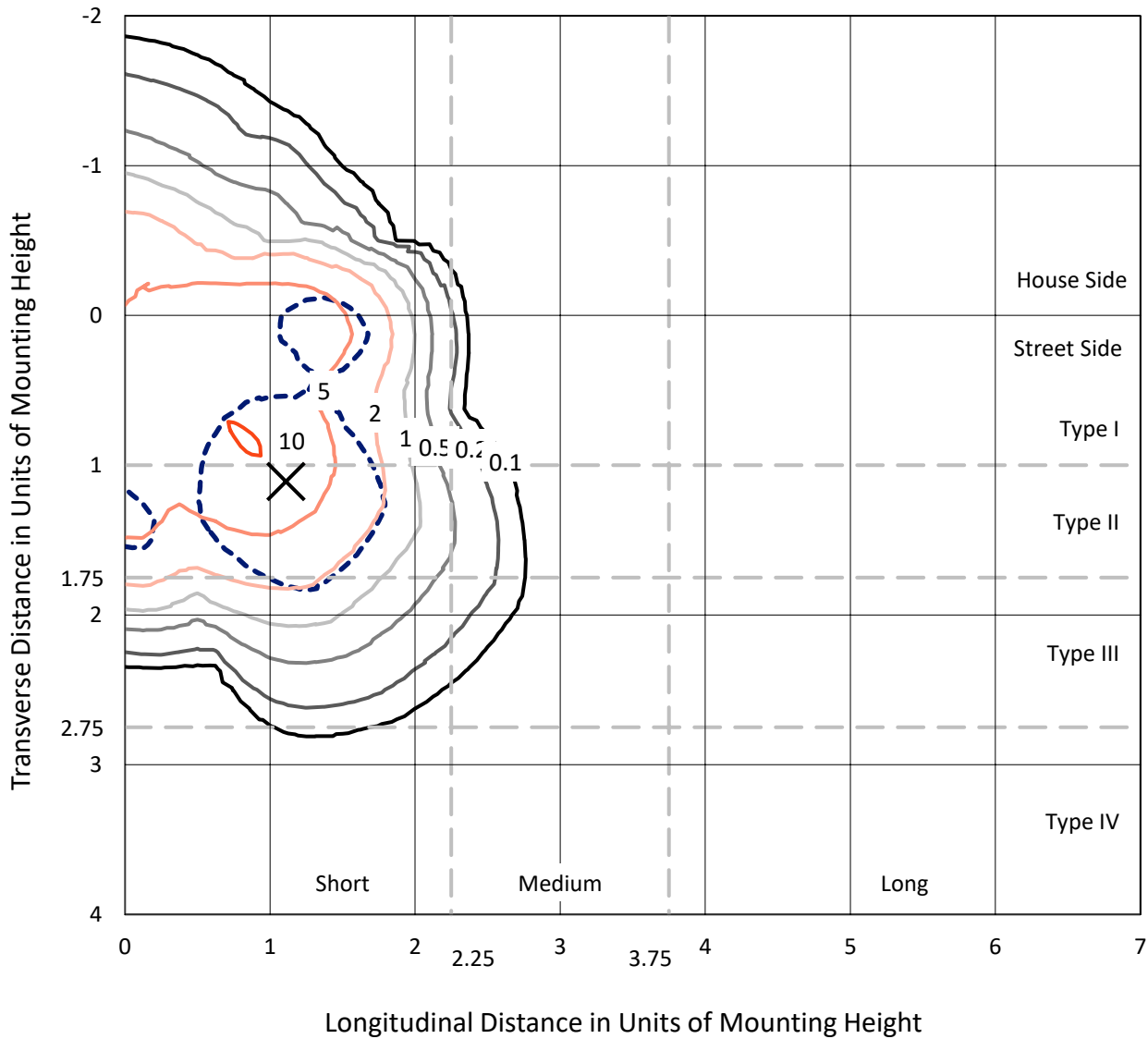
Lumens per Lamp: N/A  
Luminaire Lumens: 13160.3 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

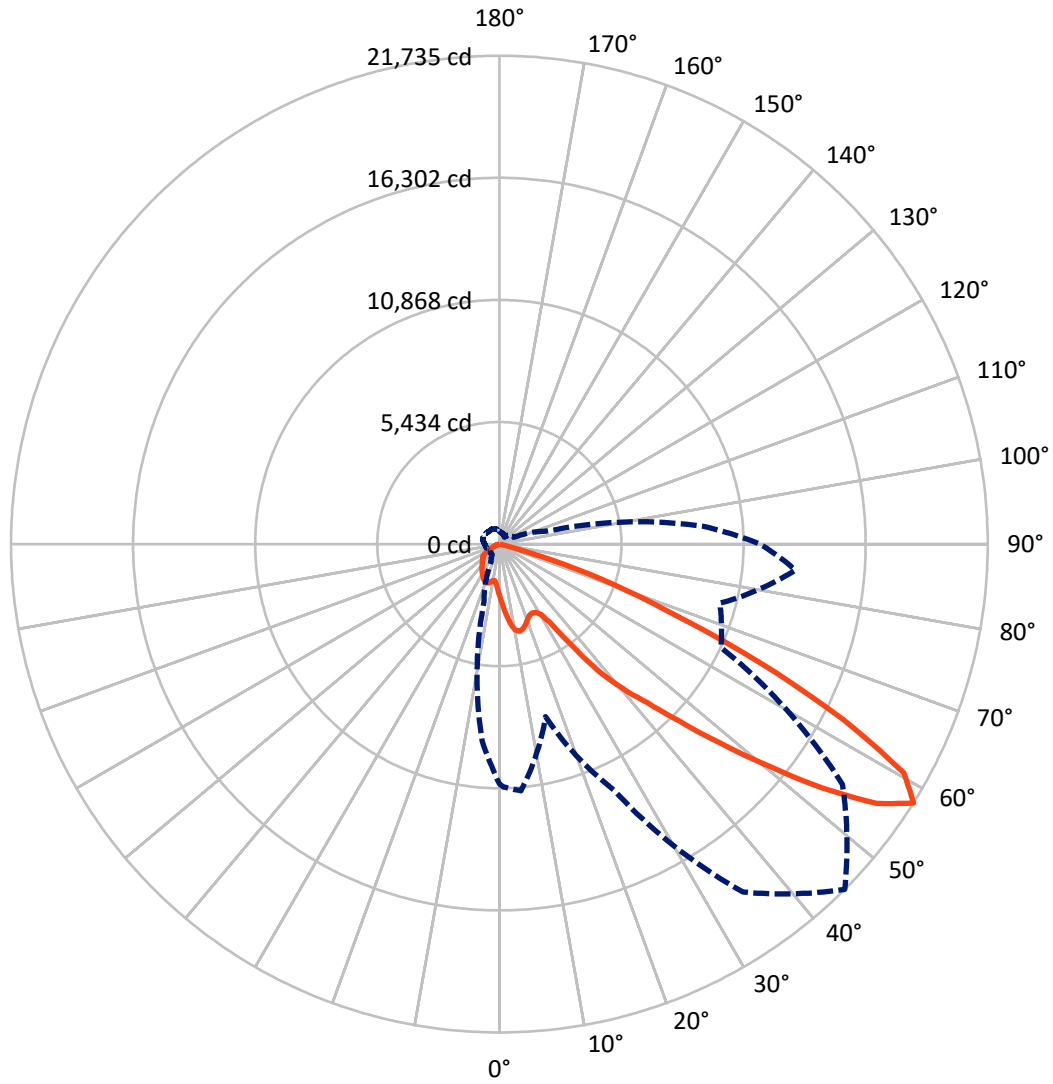
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2946.9	0.0	2946.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10213.4	0.0	10213.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	13160.3	0.0	13160.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	1.7
10°-20°	736.1	5.6
20°-30°	1195.8	9.1
30°-40°	1847.7	14.0
40°-50°	2962.7	22.5
50°-60°	4049.2	30.8
60°-70°	1961.2	14.9
70°-80°	179.6	1.4
80°-90°	0.5	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13160.3	100.0
0°-180°	13160.3	100.0

**Coefficient of Utilization**



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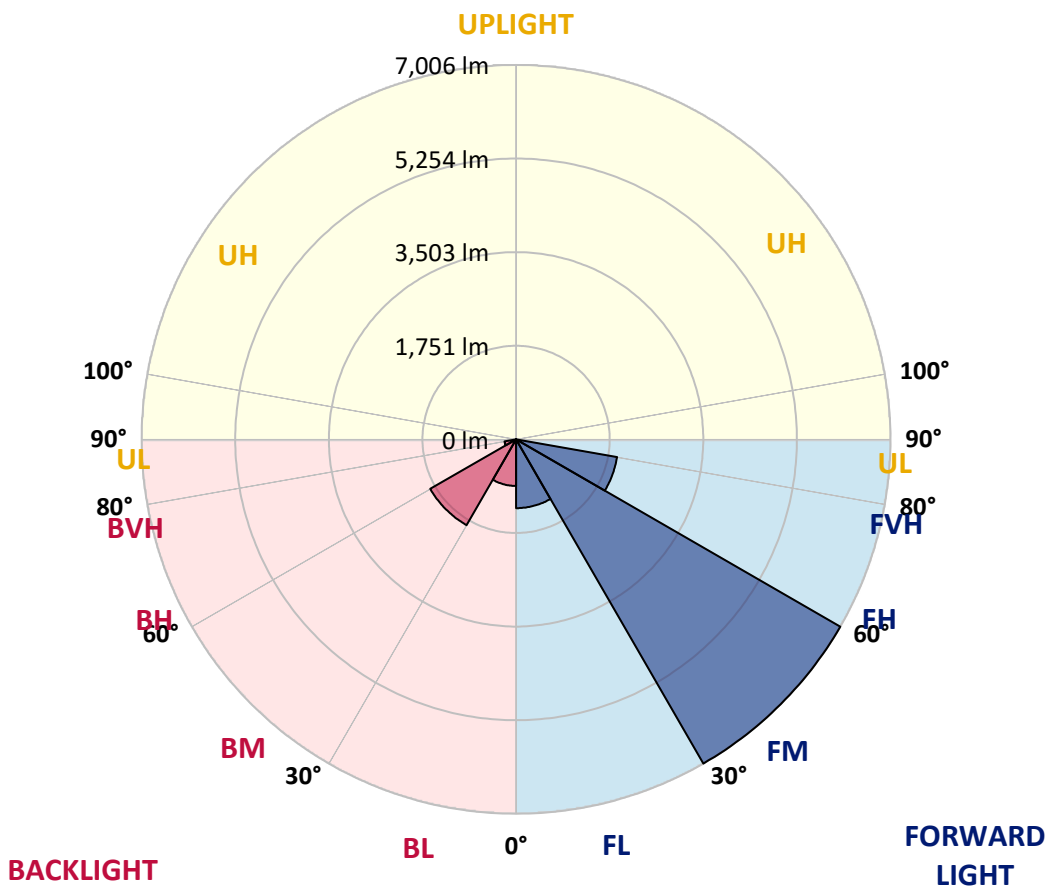
CATALOG NUMBER: GWS-SA3F-760-U-SLR-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	9.8			
FM (30°-60°)	7005.5	53.2			
FH (60°-80°)	1919.8	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	872.0	6.6	B2/1000		
BM (30°-60°)	1854.1	14.1	B2/2500		
BH (60°-80°)	220.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1
2.5°	2505.8	2521.7	2548.3	2604.8	2652.6	2684.4	2698.6	2695.0	2675.6	2661.4	2633.1
5°	2774.6	2774.6	2825.9	2955.0	3054.0	3115.9	3147.7	3128.3	3089.4	3027.5	2932.0
7.5°	3009.8	3018.7	3105.3	3289.2	3439.5	3528.0	3579.2	3568.6	3499.7	3381.2	3190.2
10°	3193.7	3204.3	3319.3	3543.9	3720.7	3810.9	3886.9	3894.0	3818.0	3660.6	3441.3
12.5°	3372.3	3382.9	3503.2	3718.9	3874.6	3911.7	3978.9	4005.4	3986.0	3874.6	3646.4
15°	3565.1	3589.8	3692.4	3853.3	3918.8	3874.6	3918.8	3966.5	4031.9	4021.3	3816.2
17.5°	3754.3	3772.0	3876.3	3932.9	3860.4	3745.5	3766.7	3823.3	3971.8	4116.8	3984.2
20°	3929.4	3954.1	4040.8	3966.5	3747.2	3568.6	3570.4	3644.7	3871.0	4175.2	4155.7
22.5°	4113.3	4150.4	4212.3	4003.7	3642.9	3428.9	3437.8	3505.0	3791.4	4230.0	4350.3
25°	4353.8	4389.2	4429.8	4095.6	3609.3	3360.0	3393.6	3455.4	3791.4	4323.7	4590.8
27.5°	4679.2	4703.9	4705.7	4267.1	3667.7	3370.6	3441.3	3512.0	3904.6	4511.2	4912.6
30°	5087.7	5126.6	5075.3	4534.2	3849.8	3512.0	3616.4	3704.8	4148.7	4827.7	5386.5
32.5°	5584.6	5639.4	5570.5	4930.3	4230.0	4000.1	4189.3	4240.6	4537.7	5285.7	5924.1
35°	6168.2	6214.1	6139.9	5478.5	5117.7	5160.2	5503.3	5437.8	5319.3	5849.9	6551.9
37.5°	6808.3	6850.8	6707.5	6309.6	6429.9	6613.8	7162.0	6937.4	6555.4	6576.7	7232.7
40°	7395.4	7441.4	7216.8	7213.3	7460.9	7796.9	8458.2	8148.8	7628.9	7528.1	7871.1
42.5°	8003.8	8035.6	7832.2	7694.3	8256.6	8948.1	9648.4	9231.0	8339.8	8230.1	8670.5
45°	8872.1	8939.2	8576.7	7931.3	8972.8	10272.6	11248.8	10433.5	8824.3	8735.9	9894.2
47.5°	10148.8	10198.3	9459.2	8079.8	9639.5	11922.5	13248.8	11993.3	9250.5	9048.9	11567.1
50°	11204.6	11238.2	10270.9	8242.5	10348.7	13701.5	15528.3	13843.0	9729.7	9567.0	13128.6
52.5°	11982.7	12110.0	11337.2	8576.7	11280.6	15793.6	18051.8	16034.1	10477.8	10567.9	14423.1
55°	12143.6	12316.9	12065.8	8781.9	12101.1	17924.5	20382.6	17995.2	11224.0	11326.6	14858.1
57.5°	10672.3	10810.2	11018.9	7954.3	12081.7	18900.6	21735.4	18646.0	10884.5	10157.7	13229.4
60°	7994.9	8090.4	8468.9	6079.8	11110.8	18037.7	20681.4	17539.0	9517.5	7750.9	10079.9
62.5°	4741.1	4783.5	5262.8	3938.2	9222.2	15533.6	17151.7	15133.9	7521.0	5213.2	6173.5
65°	1819.7	1802.0	2168.1	1943.5	6781.8	12373.5	12757.2	11537.0	5160.2	2389.1	2353.7
67.5°	281.2	268.8	362.5	574.7	4891.4	8575.0	8417.6	8315.0	3232.6	557.0	486.3
70°	63.7	63.7	77.8	169.8	2988.6	5038.2	5391.8	5140.7	2069.0	118.5	63.7
72.5°	30.1	30.1	37.1	72.5	1082.3	2076.1	2419.2	2382.0	672.0	38.9	23.0
75°	10.6	12.4	12.4	15.9	65.4	107.9	247.6	176.8	42.4	0.0	0.0
77.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1
2.5°	2571.3	2558.9	2512.9	2451.0	2390.9	2337.8	2283.0	2217.6	2169.8	2115.0	2097.3
5°	2857.7	2779.9	2654.4	2523.5	2403.3	2300.7	2201.7	2095.6	2017.7	1939.9	1913.4
7.5°	3100.0	2985.1	2781.7	2585.4	2420.9	2275.9	2132.7	1987.7	1874.5	1782.5	1754.3
10°	3317.5	3184.9	2912.6	2670.3	2463.4	2295.4	2122.1	1939.9	1793.2	1683.5	1657.0
12.5°	3505.0	3351.1	3024.0	2733.9	2481.1	2288.3	2120.3	1975.3	1842.7	1717.1	1683.5
15°	3662.4	3492.6	3117.7	2776.4	2454.5	2199.9	2053.1	2030.1	2019.5	1881.6	1816.1
17.5°	3816.2	3625.2	3193.7	2795.8	2380.3	2044.3	1938.2	2042.5	2153.9	2063.7	1980.6
20°	3977.1	3759.6	3271.5	2799.4	2256.5	1869.2	1851.5	2016.0	2157.4	2129.2	2051.3
22.5°	4166.3	3927.6	3368.8	2797.6	2100.9	1720.7	1787.8	1964.7	2079.6	2077.9	2016.0
25°	4440.4	4139.8	3499.7	2808.2	1931.1	1605.7	1717.1	1878.0	1971.8	1968.2	1916.9
27.5°	4734.0	4392.7	3669.4	2834.7	1786.1	1538.5	1634.0	1759.6	1840.9	1837.4	1793.2
30°	5146.0	4684.5	3832.1	2836.5	1681.7	1503.1	1542.0	1628.7	1706.5	1697.7	1664.1
32.5°	5646.5	5013.4	3968.3	2735.7	1616.3	1469.5	1446.5	1490.8	1550.9	1538.5	1529.7
35°	6251.3	5404.2	4085.0	2514.7	1515.5	1402.3	1340.4	1349.3	1391.7	1398.8	1395.3
37.5°	6941.0	5869.3	4230.0	2222.9	1379.4	1305.1	1222.0	1214.9	1239.6	1262.6	1280.3
40°	7621.8	6392.8	4426.3	1927.6	1255.6	1181.3	1101.7	1084.0	1094.6	1135.3	1172.4
42.5°	8387.5	6999.3	4638.5	1674.7	1170.7	1045.1	969.1	935.5	965.5	1031.0	1075.2
45°	9491.0	7849.9	4845.4	1473.1	1135.3	924.9	822.3	818.8	852.4	937.3	986.8
47.5°	11040.1	8949.9	4981.6	1315.7	1133.5	831.1	709.1	730.3	769.3	852.4	909.0
50°	12550.3	10327.4	4831.3	1195.4	1096.4	769.3	624.2	666.7	705.6	778.1	836.5
52.5°	13461.0	11068.4	4245.9	1082.3	981.5	741.0	541.1	615.4	622.5	687.9	749.8
55°	13365.5	10589.2	3252.1	907.2	811.7	700.3	454.5	555.3	558.8	608.3	661.4
57.5°	11600.7	9091.3	2233.5	735.7	610.1	578.3	374.9	468.6	502.2	532.3	571.2
60°	8645.7	6633.3	995.6	597.7	387.3	390.8	320.1	353.7	405.0	440.3	473.9
62.5°	5094.8	3816.2	405.0	359.0	214.0	245.8	258.2	258.2	290.0	316.5	337.8
65°	1925.8	1335.1	164.5	180.4	111.4	114.9	152.1	187.5	212.2	235.2	263.5
67.5°	337.8	233.4	84.9	67.2	65.4	58.4	77.8	122.0	136.2	153.9	166.2
70°	56.6	47.7	35.4	33.6	30.1	31.8	51.3	86.7	95.5	100.8	106.1
72.5°	15.9	14.1	10.6	8.8	7.1	8.8	31.8	67.2	70.7	74.3	79.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.4	47.7	51.3	53.1	58.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	14.1	17.7	14.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1
2.5°	2086.7	2051.3	2031.9	2021.3	2021.3	2007.1	1991.2	1985.9	2008.9	2008.9	2047.8
5°	1879.8	1851.5	1819.7	1800.2	1770.2	1775.5	1757.8	1756.0	1779.0	1789.6	1830.3
7.5°	1736.6	1701.2	1681.7	1669.4	1653.5	1646.4	1630.5	1625.2	1637.5	1655.2	1694.1
10°	1641.1	1635.8	1634.0	1642.8	1642.8	1634.0	1619.9	1611.0	1614.5	1648.1	1692.4
12.5°	1665.8	1676.4	1680.0	1694.1	1701.2	1694.1	1683.5	1687.1	1710.0	1771.9	1837.4
15°	1773.7	1764.9	1761.3	1768.4	1773.7	1766.6	1763.1	1789.6	1869.2	1957.6	2031.9
17.5°	1888.6	1832.1	1807.3	1807.3	1810.8	1807.3	1810.8	1862.1	1991.2	2079.6	2134.5
20°	1947.0	1842.7	1803.8	1794.9	1802.0	1803.8	1816.1	1874.5	2016.0	2077.9	2090.2
22.5°	1929.3	1798.5	1754.3	1747.2	1754.3	1761.3	1773.7	1823.2	1955.8	1987.7	1982.4
25°	1840.9	1711.8	1676.4	1676.4	1692.4	1690.6	1695.9	1731.3	1840.9	1860.4	1851.5
27.5°	1729.5	1607.5	1577.4	1595.1	1609.2	1605.7	1607.5	1637.5	1718.9	1724.2	1715.3
30°	1616.3	1510.2	1481.9	1503.1	1522.6	1519.1	1520.8	1550.9	1602.2	1596.9	1584.5
32.5°	1501.4	1423.6	1402.3	1414.7	1444.8	1441.2	1448.3	1480.1	1499.6	1476.6	1462.5
35°	1395.3	1354.6	1338.7	1345.8	1368.7	1374.0	1386.4	1407.6	1407.6	1379.4	1354.6
37.5°	1296.2	1290.9	1280.3	1271.5	1292.7	1308.6	1326.3	1351.1	1315.7	1275.0	1252.0
40°	1204.3	1227.3	1213.1	1190.1	1202.5	1225.5	1260.9	1280.3	1237.9	1197.2	1158.3
42.5°	1119.4	1158.3	1153.0	1124.7	1135.3	1156.5	1197.2	1213.1	1163.6	1117.6	1080.5
45°	1038.0	1092.9	1096.4	1061.0	1071.6	1092.9	1140.6	1145.9	1082.3	1032.7	1006.2
47.5°	967.3	1027.4	1029.2	1002.7	1006.2	1036.3	1080.5	1082.3	1009.8	963.8	930.2
50°	900.1	969.1	974.4	951.4	954.9	990.3	1027.4	1020.4	942.6	894.8	864.7
52.5°	818.8	912.5	924.9	914.3	928.4	956.7	979.7	954.9	864.7	817.0	790.5
55°	730.3	852.4	878.9	871.8	887.7	910.7	916.0	900.1	786.9	739.2	714.4
57.5°	627.8	702.1	748.0	733.9	746.3	769.3	785.2	772.8	687.9	650.8	629.5
60°	519.9	569.4	580.0	557.0	546.4	587.1	624.2	608.3	535.8	512.8	488.1
62.5°	380.2	436.8	443.9	413.8	401.4	445.6	477.5	461.6	382.0	357.2	337.8
65°	304.2	357.2	371.4	343.1	336.0	369.6	389.0	350.1	293.6	267.0	245.8
67.5°	199.8	242.3	279.4	277.6	263.5	274.1	260.0	228.1	187.5	173.3	159.2
70°	123.8	148.5	171.5	180.4	178.6	175.1	155.6	132.6	120.3	114.9	107.9
72.5°	95.5	120.3	137.9	143.2	145.0	139.7	123.8	102.6	90.2	83.1	77.8
75°	70.7	90.2	104.3	111.4	114.9	111.4	95.5	81.3	69.0	63.7	58.4
77.5°	24.8	30.1	37.1	40.7	38.9	37.1	33.6	33.6	26.5	24.8	21.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636393

CATALOG NUMBER: GWS-SA3F-760-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1	2313.1
2.5°	2092.0	2123.8	2182.2	2235.3	2291.8	2350.2	2413.9	2479.3	2509.4	2505.8
5°	1892.2	1961.2	2056.6	2161.0	2277.7	2403.3	2543.0	2686.2	2748.1	2774.6
7.5°	1766.6	1863.9	1989.4	2122.1	2275.9	2454.5	2665.0	2889.6	2979.7	3009.8
10°	1782.5	1895.7	2000.1	2129.2	2293.6	2525.3	2787.0	3054.0	3160.1	3193.7
12.5°	1911.6	1936.4	1964.7	2070.8	2277.7	2578.3	2898.4	3216.7	3338.7	3372.3
15°	2028.4	1913.4	1860.4	1957.6	2221.1	2615.5	3011.6	3391.8	3526.2	3565.1
17.5°	2033.7	1860.4	1741.9	1817.9	2129.2	2631.4	3123.0	3570.4	3717.2	3754.3
20°	1968.2	1802.0	1649.9	1651.7	2003.6	2627.8	3214.9	3731.3	3895.8	3929.4
22.5°	1872.7	1733.0	1575.6	1520.8	1869.2	2620.8	3315.7	3902.9	4081.5	4113.3
25°	1766.6	1644.6	1504.9	1421.8	1734.8	2627.8	3457.2	4127.4	4323.7	4353.8
27.5°	1651.7	1547.3	1450.1	1382.9	1621.6	2654.4	3627.0	4413.9	4647.3	4679.2
30°	1531.4	1453.6	1414.7	1374.0	1550.9	2661.4	3810.9	4748.1	5043.5	5087.7
32.5°	1412.9	1370.5	1372.3	1379.4	1483.7	2611.9	3978.9	5119.5	5513.9	5584.6
35°	1303.3	1290.9	1326.3	1361.7	1386.4	2484.6	4125.7	5558.1	6095.7	6168.2
37.5°	1209.6	1220.2	1264.4	1299.8	1280.3	2304.2	4320.2	6106.3	6746.4	6808.3
40°	1119.4	1145.9	1197.2	1213.1	1199.0	2093.8	4553.6	6635.0	7310.6	7395.4
42.5°	1036.3	1055.7	1128.2	1131.8	1176.0	1879.8	4778.2	7204.5	7959.6	8003.8
45°	969.1	965.5	1039.8	1062.8	1206.0	1642.8	4997.5	7963.1	8808.4	8872.1
47.5°	903.7	900.1	917.8	1022.1	1218.4	1423.6	5215.0	9073.6	10039.2	10148.8
50°	841.8	847.1	792.2	1002.7	1151.2	1255.6	5314.0	10101.1	11158.6	11204.6
52.5°	786.9	767.5	672.0	939.0	1008.0	1096.4	5032.9	10567.9	11851.8	11982.7
55°	709.1	601.3	553.5	762.2	795.8	956.7	4122.1	10297.4	11911.9	12143.6
57.5°	606.6	472.2	470.4	562.4	562.4	887.7	2640.2	8797.8	10265.5	10672.3
60°	466.9	366.1	389.0	390.8	360.8	647.2	1481.9	6373.3	7590.0	7994.9
62.5°	332.5	279.4	293.6	233.4	206.9	323.6	710.9	3669.4	4684.5	4741.1
65°	222.8	189.2	153.9	129.1	127.3	137.9	293.6	1326.3	1612.8	1819.7
67.5°	146.8	114.9	81.3	81.3	92.0	92.0	111.4	219.3	307.7	281.2
70°	95.5	79.6	51.3	49.5	60.1	60.1	56.6	60.1	63.7	63.7
72.5°	70.7	60.1	30.1	26.5	33.6	35.4	31.8	30.1	30.1	30.1
75°	53.1	42.4	17.7	12.4	15.9	21.2	17.7	12.4	12.4	10.6
77.5°	21.2	15.9	7.1	5.3	8.8	12.4	10.6	5.3	3.5	3.5
80°	1.8	3.5	3.5	3.5	5.3	7.1	8.8	3.5	1.8	1.8
82.5°	0.0	1.8	1.8	1.8	3.5	5.3	7.1	3.5	1.8	1.8
85°	0.0	0.0	0.0	0.0	3.5	5.3	3.5	1.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.8	5.3	3.5	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)